



# **MAGTF Logistics**

## ***Back to the Sea...***

***(Maybe...Maybe not)***

---

**Mr. Nick  
Linkowitz  
HQMC/LPV  
7 July 2004**

# The Brief...

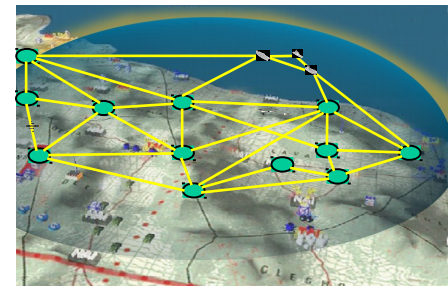
**Where we have been...**



**Where we are...**



**Where we going...**



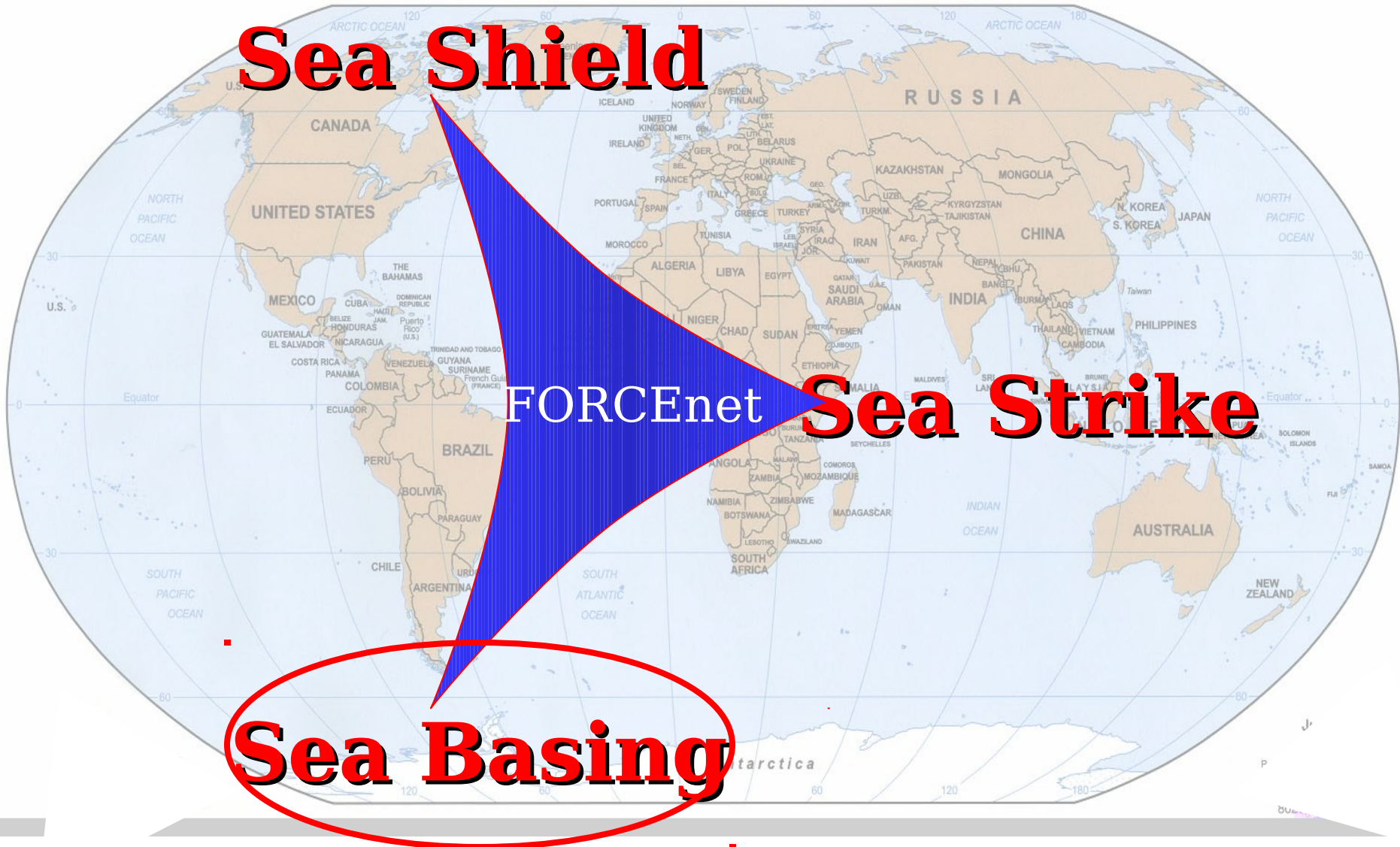
# ***SEA POWER 21***

**Sea Shield**

FORCEnet

**Sea Strike**

**Sea Basing**



# **Not the Marine Corps View of Sea-Basing**



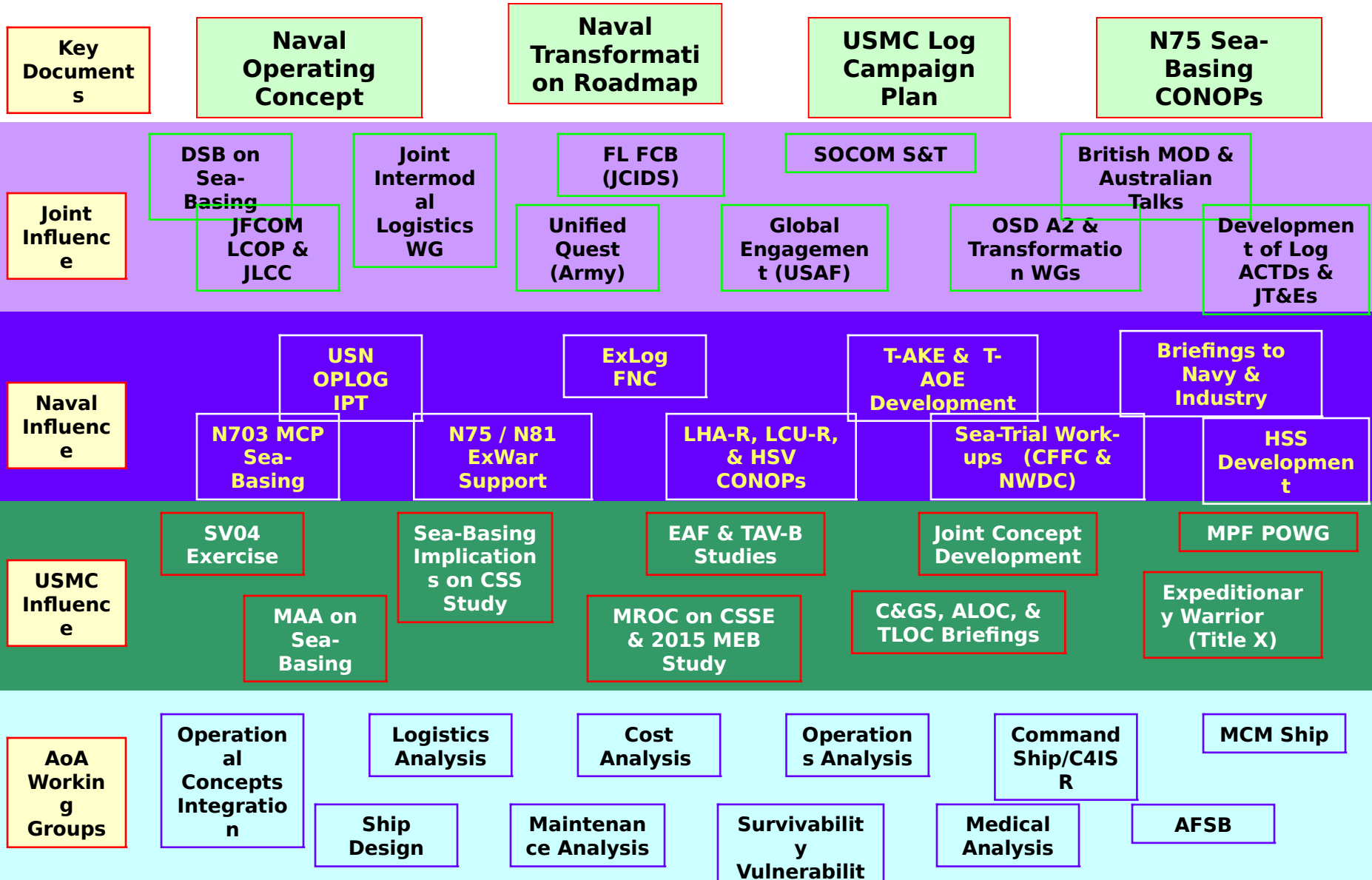




# MPS-F...?



# Guiding MPF-F Requirements



# **Your Challenges...NOW**

---

**ESG - MPF Interoperability**

**At-Sea Arrival and Assembly**

**Maritime CSS Afloat & Ashore**

**At-Sea R<sup>3</sup> (*Regeneration-Reconstitution-Rehabilitation*)**

**Naval Logistics Integration**

**Sea-Based  
Logistics**

# **Your Issues....**

---

**Is EMW Supportable?**

**Can we continue Expeditionary Logistics?**

**Are Sea-Basing & Sustained Operations Ashore both supportable?**

**Difference from Logistics in an expeditionary environment?**

**Is DOTMLPF really looking at an EMW environment?**

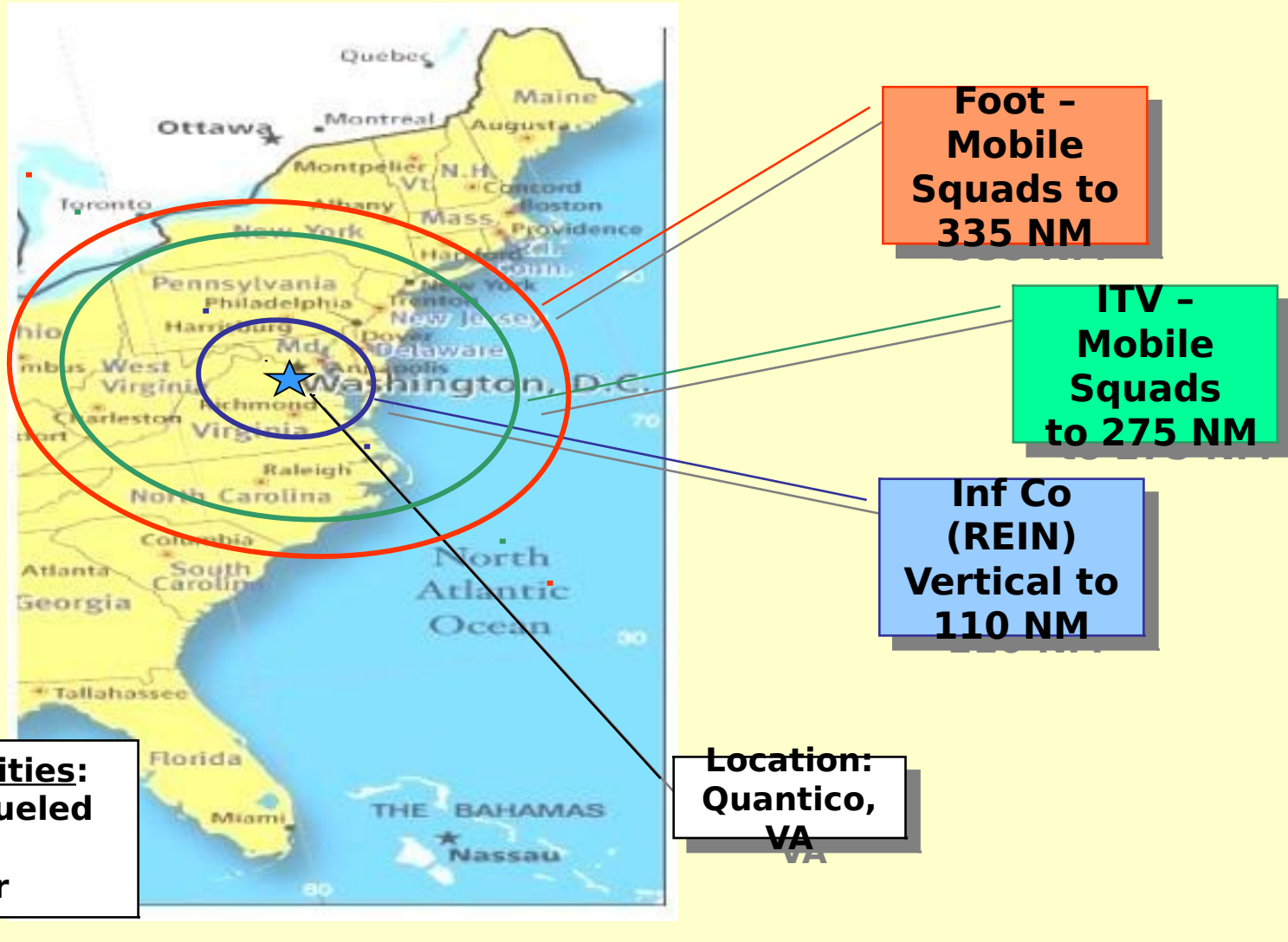
**What are the limitations if we don't change?**

**Future Logistics**

# ~~Challenges Problems...~~

- JFMCC vs. JFLCC Focus
- STOM appears to be a one-way trip -- A2, Force Protection, no real MAGTF changes
- Likelihood of Future Operations = MEBS & MEUs
- CSSE Past: Based on MAFs/MEFS & work down (**Threat-based**)
- CSSE Future: MEBs & work-up/down as needed (**Capabilities-based**)
- Future CSSE Operations:
  - FSSG as CSSE supporting **SOA (Battallions)**
  - BSSG as CSSE supporting **STOM (Companies)**
  - MSSG as CSSE supporting **Distributed Operations (Squads & Fire Teams)**
  - T/Os, T/Es, Training, & TTPs will be different for missions/tasks will be
- **Cultural Mindset:** Equipment still focused on mechanized large scale operations
  - Reduces future mobility, effectiveness, flexibility for STOM & OMFTS
- Vulnerability of two FSSGs to support a MEF? (Direct Support & a MLC)
- Joint Theater Logistics Management (JTLM) Impacts on MAGTF Logistics

# Operational Flexibility



# Transformation vs. Modernization

- Service Lead for Transformation: MCCDC
- Log Transformation: I&L supports MCCDC
  - MPF-F development
  - Naval & Joint S&T Requirements / Experimentation
- Log Modernization: I&L
- ***But...***

What really is Transformation?

When does Modernization become  
Transformational?

Is the MAGTF really being Transformed?

# Logistics & Sea-Basing

**The logistics demand for forces ashore is reduced while leaving certain functions at sea by:**

- **Streamlining what is taken ashore**
- **Remotely monitoring vehicles & equipment**

**(Autonomic Logistics)**

**Being**

**Effective over Efficient**

• Total  
logist

# ***Daily Resupply - Ground ...***

- Food Requirement (Class I)

3.1%

>  
84.7%

- Water Requirement

38.8%

- Fuel Requirement (Class III)

45.9%

- Ammunition Requirement (Class V)

6.8%

-- Naval Expeditionary Logistics, Naval

Studies Board (1999)

# Sea-Based Logistics

*For a good part of the  
**Marine Corps**... We don't  
know what we don't know!*

# Naval Expeditionary Sea-Base Sustainment Conference

29 - 31 Jan 2002

Port Hueneme, CA





***“...Future Marine Corps operational concepts, contained in Expeditionary Maneuver Warfare (EMW), will depend a great deal on the use of Naval Logistics. A cornerstone of our use will be with the emerging Naval Sea-Base concept....”***

I&L and N4 TOR on

***Naval Logistics  
Integration***

Signed July 2002

N4, Aug 2001

# Scope...

---

*The Navy and Marine Corps will move beyond logistic interoperability and will seek an integration of their Service logistics processes to optimize support to daily operations and future sea-basing*

# **Areas of Mutual Concern**

---

- **Logistics Systems, Enterprise Resource Planning (ERP), & Inventory Management**
- **Logistic Policies, Procedures, and Doctrine**
- **Common Logistics Support Organizations**
- **Training and Education**
- **Naval Distribution**
- **Common Intermodal Naval Packaging**
- **Naval Engineers**
- **Science & Technology and Experimentation**
- **Automatic Identification Technology (AIT)**
- **Logistics Transformation Initiatives**

***Long Term Goal...***

---

***Make Naval Logistics***

***...More Naval!***

# Information & Distribution

---

- **Lessen the Burden Ashore!**
- **Understand the change in needed Support**
- **Integrate the revised Business Processes**
- **Then...Make IT Systems support the Processes!**
- **Work in a Shared Data Environment**
- **Effective Packaging = less handling**
- **Supplies *into, upon, & from* the Sea-Base**

# MAGTF Log C2 -- Tactically Focused

## Operationally & Strategically Linked

DATA  
PIPE  
EXPANSION



# Integrated Distribution



# Current Sea-Basing Efforts

I&L and  
N42

Sea Basing  
CONOPS

LOG CONOPS

LCS CONOPS

Reconstitutio  
n CONOPS

JFEO Study

LHA(R) CONOPS

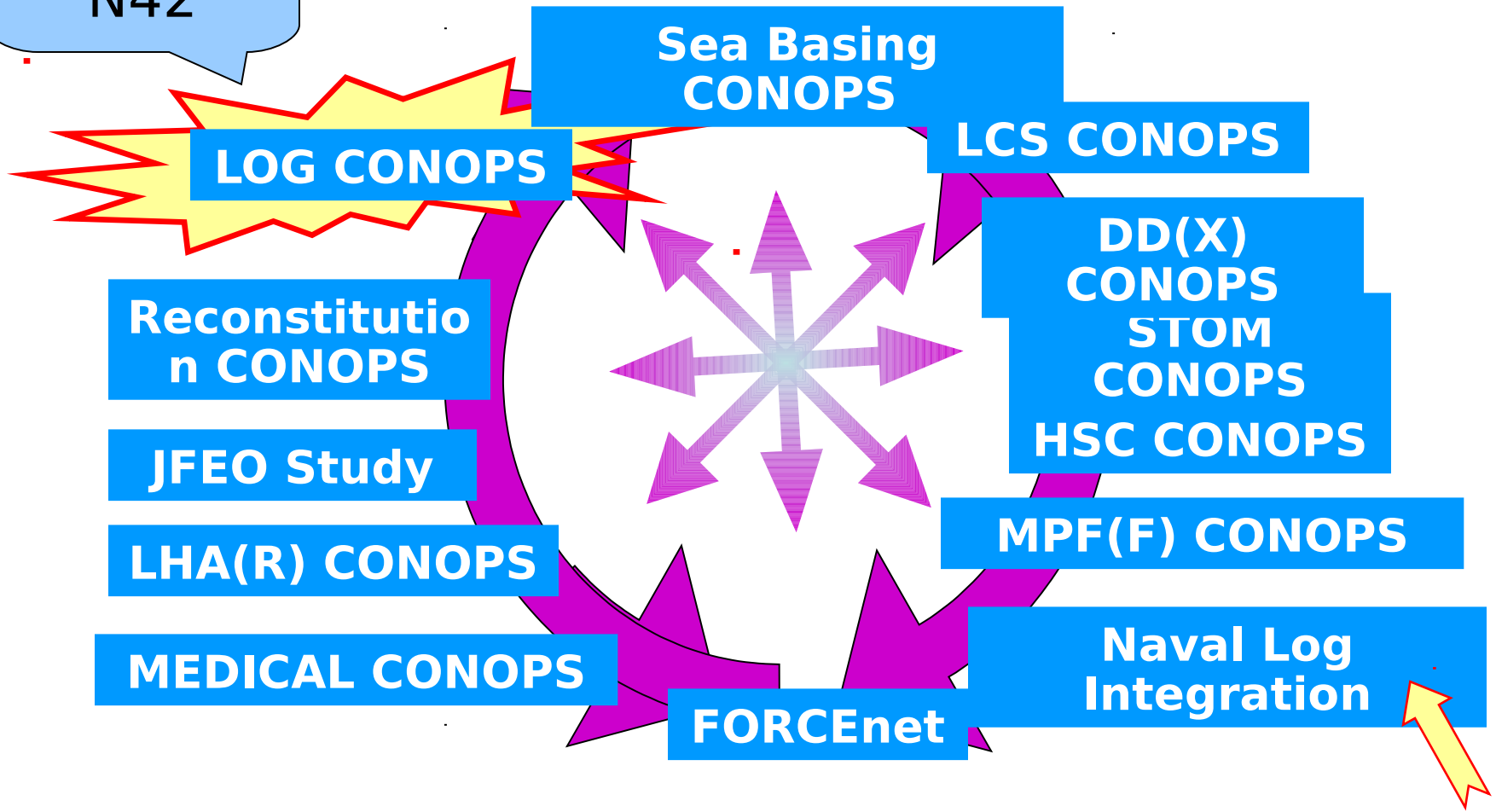
MEDICAL CONOPS

DD(X)  
CONOPS  
STOM  
CONOPS  
HSC CONOPS

MPF(F) CONOPS

Naval Log  
Integration

FORCEnet



# ***Studies & Analysis...***

## **FY-03**

Sea-Basing  
Implications to the  
Combat Service  
Support (CSS)  
Study

Expeditionary  
Airfield (EAF) Study

## **FY-04**

MROC Directed  
Baseline 2015  
Marine Expeditionary  
Brigade Combat  
Service Support (CSS)  
Study

Deployment  
Mobility Growth Study

## **Proposed FY-05**

MAGTF  
Maintenance  
Operations from a  
Sea Base

Roadmap for Naval  
Logistics  
Integration

USMC Future  
Advanced Base  
Operations

Ground/Aviation  
Mobility and the  
Combat Load

MAGTF Logistics  
Planning Factors

Required Sea Base  
Logistic Skill Sets

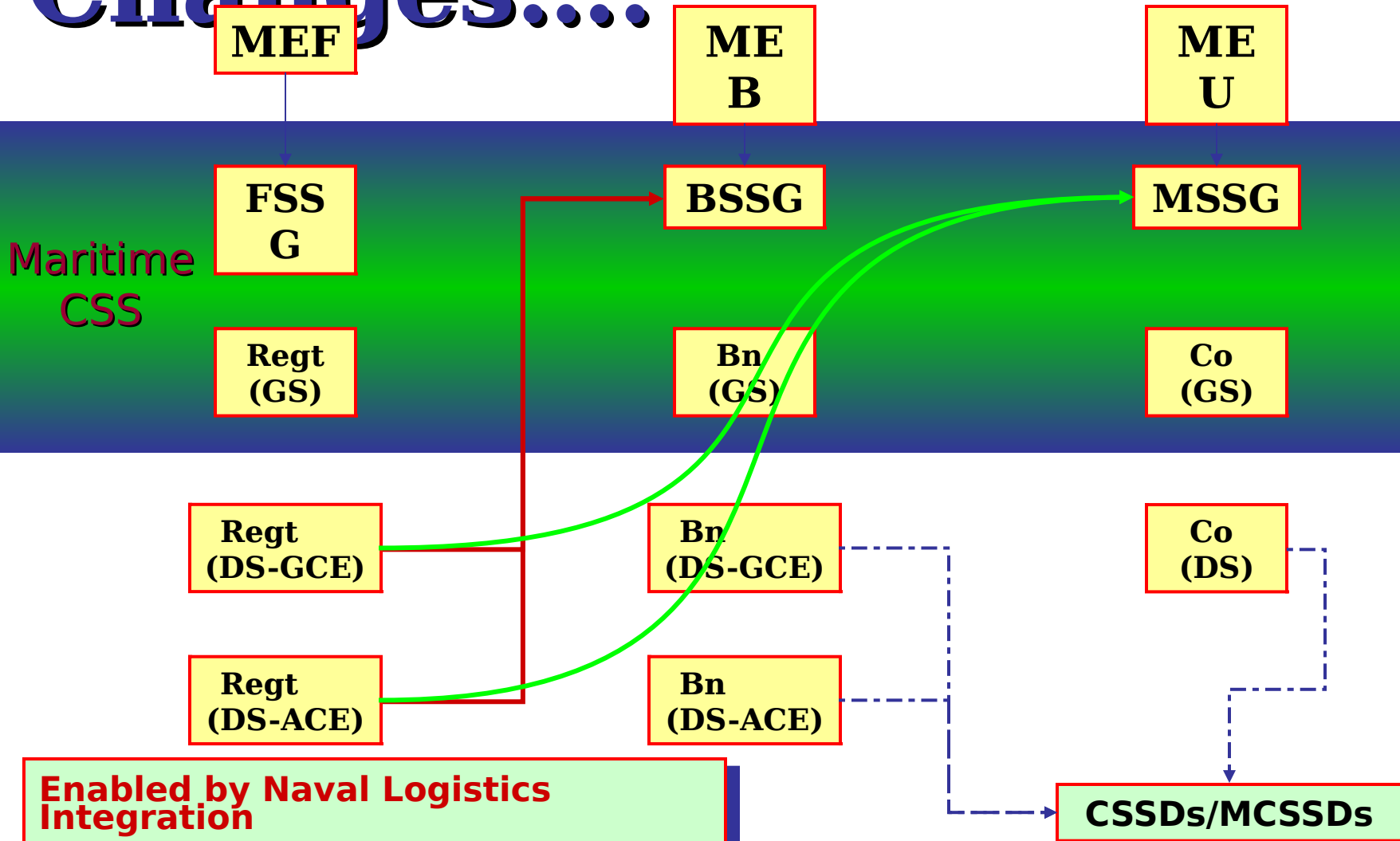
Viability of the  
Field Logistics  
System (FLS) to  
Future MAGTF  
Operations

C2 of Logistics  
Operations from a  
Sea Base

Potential  
Operations of the  
4th FSSG under  
future STOM & SOA  
Operations

Update on the  
Implementation of  
Notional MAGTFs

# Possible Structure Changes....



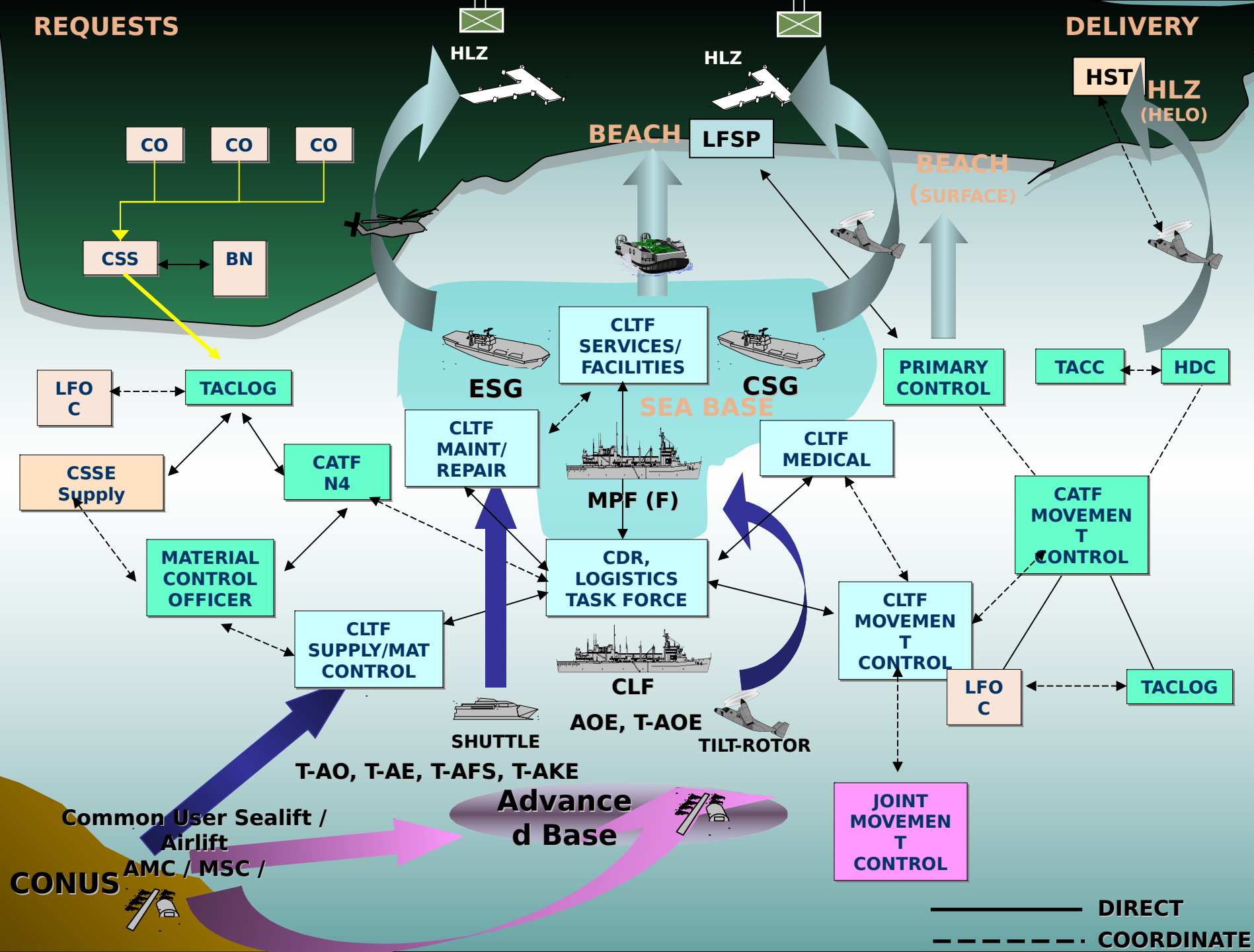
**Enabled by Naval Logistics Integration**

**Guided by Log Modernization**

**Supported by GCSS-MC**

# REQUESTS

# DELIVERY



# Approaches to Logistics

## Mass-Based



- More is better
- Mountains of stuff measured in days of supply
- Uses massive inventory to hedge against uncertainty in demand and supply
- Mass begets mass and slows everything down

**Prime Metric:**  
**Days of Supply**

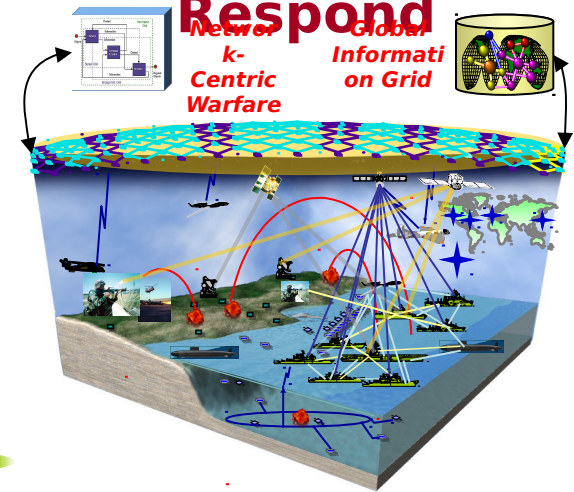
## Just-in-Time



- On-time is better
- Inventory is reduced to a minimum and kept moving
- Uses precise demand prediction and static optimization to purge uncertainty
- Works great, except when it doesn't

**Prime Metric:**  
**Flow Time**

## Sense and Respond



- Adaptive is better
- Inventory is dynamically positioned throughout
- Uses transportation flexibility and robust IT to handle uncertainty
- Initial S&R models look promising
- Supports distributed, adaptive ops

**Prime Metric:**  
**Speed/Quality of Effects**

# ***Strategic Planning Guidance***

## *Distributed, Adaptive Logistics Capability*

“By 30 September 2004, USD (AT&L) will reconcile the ‘**Sense and Respond Logistics**’ (**S&RL**) concept, Force-Centric Logistics Enterprise, and Focused Logistics into a coherent logistics transformation strategy. In addition, USD (AT&L), in coordination with CJCS, Commander USJFCOM and Commander USTRANSCOM, will *initiate a joint effort to integrate logistics from point-of-effect to source of supply/services, across Services and Defense Agencies*. In addition, the next iteration of Joint and Service Transformation Roadmaps will include plans to evolve to this integrated logistics transformation strategy and address concept, process, metrics and experimentation.”

# **On the Sense & Respond Logistics Initiative...**

**“The benefit of supporting S&RL is that it brings to the Marine Corps an experiment to stress the transformational war fighting concept of Expeditionary Maneuver from the Sea-Base. The goal is to have operations, logistics, & intelligence all working together, leveraged by available information.**

**The stretch goal is to have logistics solutions that can be integrated into situational awareness supporting common operating pictures (COPs) Service, Naval, and Joint.”**

DCS/STW/GMC/Service, 2003

# Gaps in USMC Logistics At-Sea & Ashore...

- **Physical Distribution & Movement of Materiel**
  - Volume into, upon , & from the Sea-Base
  - Containers at-sea is **not** part of Naval Distribution
  - Reduce manpower handling—Afloat & Ashore
  - Supporting the Fleet - No CLF Role beyond the CSGs
  - Increased Aerial Delivery (A/C, Parachutes, UAVs)
- **C3I not equal to Supported Units (e.g., CONDOR)**
- **Improve IROAN Capabilities for equipment**
  - *Inspect Repair Only As Necessary*
  - Log Modernization = 5 to 3 Echelons
- **Increased use of Autonomic Logistics and S&RL**
- **No Operational Pauses due to Logistics...**

# Transition to Shore-Based Logistics

Sea-based logistics is one of the foundation concepts of OMFTS: By keeping much (though not necessarily all) of the supplies and support activities at sea, naval expeditionary forces could both reduce the vulnerability of logistics operations to enemy attack and allow greater maneuverability of forces ashore. OMFTS, however, does not rule out a transition to shore-based support. Such a transition implies retaining many of today's land-oriented combat service support capabilities with today's large

***Are OMFTS capabilities in addition to, or in lieu of, today's capabilities?***

***The answer has a profound effect on the future combat service support for both the Marine Corps and the Navy.***

# **But...*Remember* the Environment**



